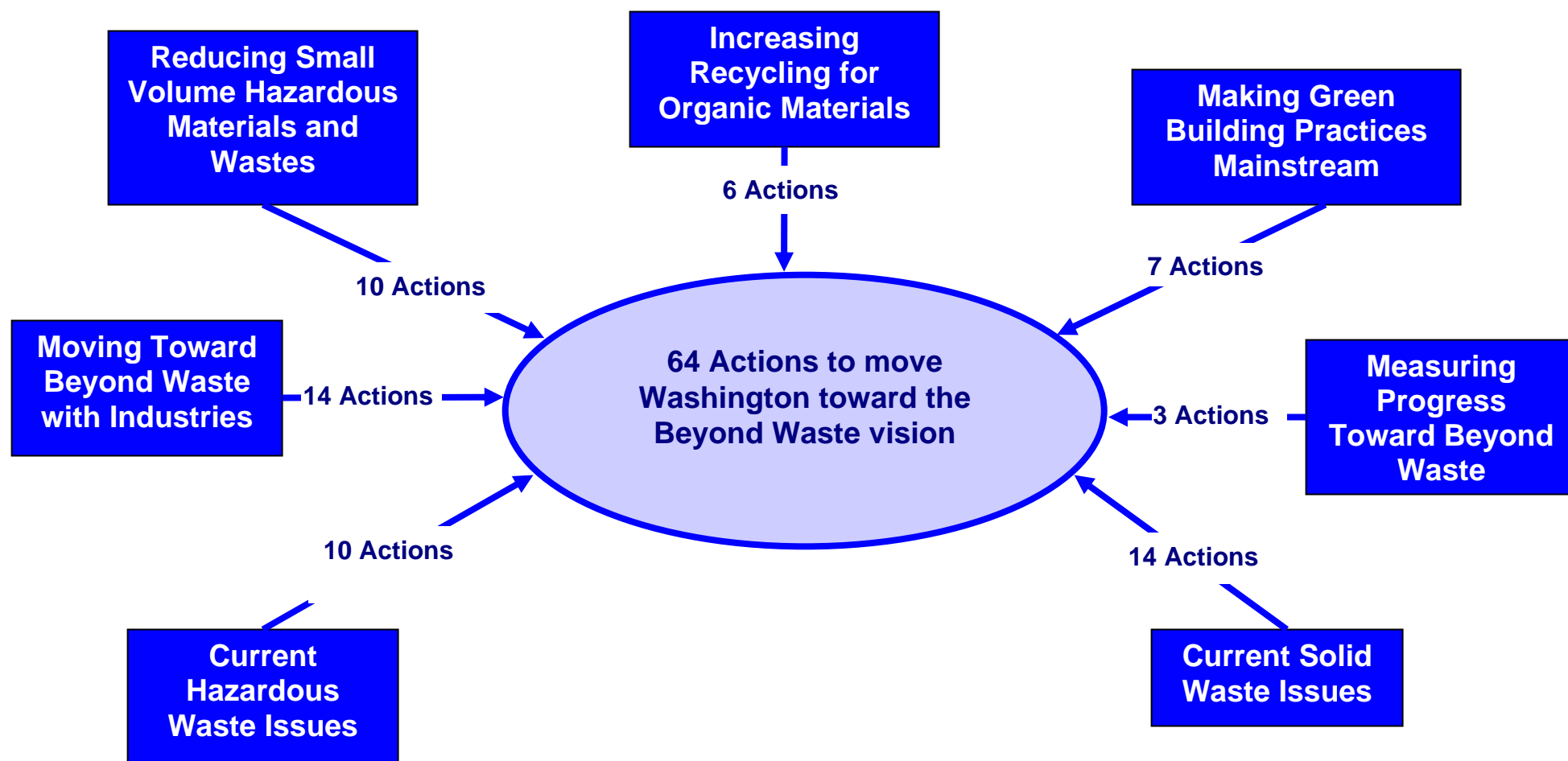


A Brief Guide of the Washington State Beyond Waste Plan

A PLAN OF ACTION TO REDUCE SOLID AND HAZARDOUS WASTE

Beyond Waste 30-Year Vision

We can transition to a society where waste is viewed as inefficient, and where most wastes and toxic substances have been eliminated. This will contribute to economic, social and environmental vitality.



Moving Toward Beyond Waste with Industries

30-YEAR GOALS

1. SAFE PRODUCTS AND SERVICES

2. SUSTAINABLE MATERIALS MANAGEMENT

3. ECONOMIC VITALITY

Actions (14)

- ☐ IND1 Focus on sector work
- ☐ IND2 Specific sectors to focus on include: Mercury Action Plan (auto switches, lights and hospitals), PBDE Chemical Action Plan, general government and CPC
- ☐ IND3 Develop a standardized process for sector work
- ☐ IND4 Develop specific tools for sector work
- ☐ IND5 Dovetail the Pollution Prevention Planning program with the Beyond Waste vision
- ☐ IND6 Expand information on Ecology's Web site
- ☐ IND7 Form a work group on low-interest loans
- ☐ IND8 Negotiate the state agreement with EPA
- ☐ IND9 Collaborate with affected parties to explore changes to hazardous waste fees and taxes
- ☐ IND10 Explore ways to implement Beyond Waste incentives
- ☐ IND11 Encourage new businesses to adopt sustainability practices
- ☐ IND12 Encourage waste handlers to become materials brokers
- ☐ IND13 Support EPA's "Beyond Waste-type" efforts
- ☐ IND14 Promote sustainability in product development



5-Year Milestones

- ☐ Companies participating in the Cleaner Production Challenge have 10-25% reduction in wastes overall
- ☐ A PBDE Chemical Action Plan is being implemented
- ☐ The Mercury Chemical Action Plan has been fully implemented
- ☐ Government is leading by example, with significantly less waste generation and toxic substance use
- ☐ Work has started on another sector project
- ☐ A plan has been developed, and at least partially implemented, for another PBT chemical
- ☐ The HWTRP Web site includes information about best management practices for key wastes and substances
- ☐ Most pollution prevention plans comprehensively address hazardous substance use
- ☐ New businesses locating in Washington have been designed to minimize wastes and toxics
- ☐ Hazardous waste handlers in Washington have taken noticeable steps toward becoming brokers of materials
- ☐ Additional incentives have been identified to implement Beyond Waste which may include changes to hazardous waste fees and taxes
- ☐ Low-interest financing program for technologies to reduce wastes and toxics is in place
- ☐ EPA and Ecology have been working together to implement Beyond Waste

Reducing Small Volume Hazardous Materials and Wastes

30-YEAR GOALS

1. SAFE PRODUCTS AND SERVICES

2. EFFICIENT MATERIALS MANAGEMENT

3. GREATER ECONOMIC VITALITY

Actions (10)

- ☐ MRW1 Prioritize substances to pursue
- ☐ MRW2 Reduce threats from mercury
- ☐ MRW3 Reduce threats from PBDEs
- ☐ MRW4 Develop an electronics product stewardship infrastructure
- ☐ MRW5 Ensure proper use of pesticides, including effective alternatives
- ☐ MRW6 Reduce and manage all architectural paint wastes
- ☐ MRW7 Lead by example in state government
- ☐ MRW8 Ensure MRW and hazardous substances are managed according to hazards, toxicity and risk
- ☐ MRW9 Fully implement local hazardous waste plans
- ☐ MRW10 Ensure facilities handling MRW are in compliance with environmental laws and regulations



5-Year Milestones

- ☐ A consensus-based process is in place to rank priority substances that are high risk
- ☐ Sales of mercury-containing consumer retail products have significantly decreased in the state
- ☐ A statewide strategy is undergoing implementation to reduce threats posed by polybrominated diphenyl ethers (PBDE) used as flame-retardants
- ☐ Industry has established an effective product stewardship program for electronic products
- ☐ An industry lead management system for leftover paint has been created
- ☐ The growth trend in retail sales of high-risk non-agricultural pesticides has leveled off
- ☐ All of state government and 80% of other entities that are members of the Washington State Purchasing Cooperative are using environmentally preferable purchasing for products and services
- ☐ Local hazardous waste plans are up to date and are being fully implemented
- ☐ MRW facilities are in compliance with Chapter 173-350 WAC, and treatment storage and disposal facilities handling MRW are in compliance with Chapter 173-303 WAC

Increasing Recycling for Organic Materials

30-YEAR GOALS

1. ROBUST MARKETS

2. SOCIETY SUPPORTS A SUSTAINABLE ORGANICS CYCLE

3. CLOSED-LOOP MATERIALS MANAGEMENT

Actions (6)

- ☐ ORG1 Lead by example in state government
- ☐ ORG2 Increase residential and commercial organics recovery programs
- ☐ ORG3 Improve quality of recycled organic products
- ☐ ORG4 Develop a strategy to increase industrial and agricultural organics recovery
- ☐ ORG5 Propose solutions to statutory and regulatory barriers
- ☐ ORG6 Develop new products and technologies for organic residuals



5-Year Milestones

- ☐ The organics recycling project at Ecology's headquarters in Lacey is a model
- ☐ At least 6 organics recycling programs are operating in large institutions and government agencies
- ☐ Home composting programs are active and successful in every county
- ☐ Closed-loop organics recycling goals and actions have been incorporated into several local-jurisdiction solid waste management plans
- ☐ Effective incentives for encouraging organics closed-loop recycling have been identified
- ☐ Performance-based product labeling requirements are in place for organic products
- ☐ Most people throughout the state are aware of the ongoing "healthy soils" program
- ☐ One or more pilot projects using biomass energy technology are in operation
- ☐ A strategy for increasing agricultural and industrial organics recycling is being implemented
- ☐ A plan to address barriers to closed-loop organics recycling is widely supported

Making Green Building Practices Mainstream

30-YEAR GOALS

1. REUSE OF BUILDINGS AND RECYCLING OF CONSTRUCTION MATERIALS ARE NORMAL BUSINESS PRACTICES

2. GREEN BUILDING PRACTICES ARE MAINSTREAM

3. BUILDINGS AND MATERIALS ARE DESIGNED FOR HUMAN, ECONOMIC AND ENVIRONMENTAL HEALTH

Actions (7)

- ☐ GB1 Coordinate and facilitate partnerships to implement the Green Building Action Plan
- ☐ GB2 Lead by example in state government
- ☐ GB3 Provide incentives that encourage green design, construction, and deconstruction and begin removing disincentives
- ☐ GB4 Expand capacity and markets for reusing and recycling construction and demolition materials
- ☐ GB5 Provide and promote statewide residential green building programs
- ☐ GB6 Increase awareness, knowledge and access to green building resources
- ☐ GB7 Encourage innovative product design



5-Year Milestones

- ☐ Washington State is a national leader in green building
- ☐ All new state government buildings meet green building standards
- ☐ Government has removed at least one major regulatory barrier to green building
- ☐ At least two additional reuse and recycling facilities are in operation in underserved areas
- ☐ The use of reused and /or recycled building materials has increased by at least 25%
- ☐ 10% of new residential and commercial construction use green building practices
- ☐ All accredited architectural programs in the state incorporate green building design
- ☐ Ongoing industry-specific short courses are available across the state
- ☐ People working in building and building-related sectors in Washington State are familiar with green building practices
- ☐ Product stewardship programs for carpet, paint, and mercury-containing building products are in place
- ☐ Building material manufacturers are aware of what extended producer responsibility means

Measuring Progress Toward Beyond Waste

30-YEAR GOALS

1. A PERFORMANCE-INDICATOR SYSTEM HAS BEEN DEVELOPED TO MEASURE PROGRESS TOWARD BEYOND WASTE

2. DATA GAPS HAVE BEEN IDENTIFIED, SIGNIFICANCE DETERMINED AND FILLED IN

3. EXISTING DATA COLLECTION HAS BEEN SUPPLEMENTED WITH OTHER INFORMATION SUCH AS SITE VISITS AND SURVEYS

Actions (3)

- ☐ DATA1 Conduct a feasibility study to determine which major indicators to use
- ☐ DATA2 Continue the work of Ecology's data team to produce a joint Beyond Waste progress report
- ☐ DATA3 Discuss indicators for each initiative



5-Year Milestones

- ☐ A Beyond Waste Project feasibility study has been completed and key indicators are in use
- ☐ A clear baseline is established for Beyond Waste data
- ☐ Several Beyond Waste progress reports have been released to the public
- ☐ Ecology's data-collection and tracking system measures progress toward Beyond Waste

Current Hazardous Waste System Issues

Pollution Prevention

30-Year Goals

1. Plan earlier
2. More implementation
3. Plan better
4. Better access

Actions (3)

- ☐ HW1 Encourage P2 planners to address hazardous substance use, including toxicity and risk, in their P2 plans
- ☐ HW2 Develop an EMS hybrid model and guidance
- ☐ HW3 Improve P2 plan quality and relationships with P2 planners

Compliance with DW Regulations

30-Year Goals

1. Build on existing relationships
2. Improve information availability
3. Promote recycling

Actions (3)

- ☐ HW4 Strive for better relationships with the regulated community
- ☐ HW5 Work to ensure greater compliance with the regulations
- ☐ HW6 Modify the *DW Regulations* to encourage more waste and toxics minimization, including upcycling

Permitting/Corrective Action

30-Year Goals

1. Ensure full financial responsibility
2. Acquire more technical assistance
3. Educate the public
4. Transform existing TSDs

Actions (4)

- ☐ HW7 Ensure hazardous waste management facilities are operated in a safe manner
- ☐ HW8 Develop accurate cost estimates for closure/corrective action
- ☐ HW9 Reduce the administrative burden for corrective action facilities
- ☐ HW10 Explore private/public partnerships

Current Solid Waste System Issues

1. Solid Waste Authorities & Local Planning Issues

Actions (5)

- ☐ SW1 Encourage inclusion of Beyond Waste principles into local plans
- ☐ SW2 Revise local planning guidelines
- ☐ SW3 Expand assistance to local planning jurisdictions
- ☐ SW4 Collaborate with local government
- ☐ SW5 Ensure responsibilities are clear

2. Recycling and Technical Nutrient Cycle

Actions (2)

- ☐ SW6 Characterize Washington's solid waste streams
- ☐ SW7 Plan for a stronger technical recycling system

4. Financing Solid Waste for the Future

Actions (1)

- ☐ SW14 Evaluate financing for the solid waste system, including moving toward Beyond Waste, in consultation with the SWAC and interested parties

3. Disposal – Yesterday, Today and Tomorrow

30-Year Goals

1. Closed landfills are addressed
2. Landfills meet compliance requirements
3. Facilities are State-of-the-Art
4. Transform existing TSDs
5. Disposed materials are recovered

Actions (6)

- ☐ SW8 Identify closed and abandoned sites statewide
- ☐ SW9 Evaluate and prioritize problems at closed sites
- ☐ SW10 Develop feasible and responsible processes for addressing priority sites
- ☐ SW11 Identify funding to address priority sites
- ☐ SW12 Ensure that existing disposal facilities comply with requirements
- ☐ SW13 Continually reduce disposal impacts on human health and the environment

Related Documents

Summary and Background Papers

(These are part of the Beyond Waste Plan)

Summary of the Washington State Hazardous Waste Management Plan and Solid Waste Management Plan: Final Plan #04-07-022

04-04-015 The Future of Waste and Toxins in Washington

Background Papers

04-07-023 Hazardous Waste History

04-07-024 Solid Waste History

04-07-025 Moving Toward Beyond Waste with Industries

04-07-026 Reducing Small-Volume Hazardous Materials and Wastes

04-07-027 Increasing Recycling for Organic Materials

04-07-028 Making Green Building Practices Mainstream

04-07-029 Measuring Progress Toward Beyond Waste

04-07-030 Current Hazardous Waste System Issues

04-07-031 Disposal – Yesterday, Today, and Tomorrow

04-07-032 Financing Solid Waste for the Future

Consultant and Staff Issue Papers

(These are supporting documents)

Consultant Issue Papers

03-04-028 Waste and Material Flows

03-04-029 Achieving the Beyond Waste Vision

03-04-030 Moving Toward Beyond Waste in the Industrial Sector

03-04-031 Establishing the Organics Cycle in Washington State

03-04-032 Expanding Green Building Practices in Washington State

03-04-033 Potential Enhancements to Ecology's Pollution Prevention Planning Program

03-04-034 Improving Waste and Materials Tracking in Washington

Staff Issue Papers

03-04-039 Regulatory Compliance and Hazardous Waste

03-04-040 Permitting and Corrective Action

03-04-041 Data Trends and Collection

03-04-042 Management According to Risk

03-04-043 Pollution Prevention Planning

03-04-044 History of Hazardous Waste Management in Washington State

03-04-045 Education and Technical Assistance

03-04-046 Fee Systems

01-07-001 Solid Waste Issues Identification Report

If you need this information in an alternate format, please call the Hazardous Waste and Toxics Reduction Program at 360-407-6700. If you are a person with a speech or hearing impairment, call 711, or 800-833-6388 for TTY.

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<http://www.ecy.wa.gov/beyondwaste/>